



Team 55: National Firefighter Registry

In Collaboration with CDC-
NIOSH

09/20/2020

Presentation Link

<https://youtu.be/v2Z4LHAFDTk>

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Team 55: Personnel

Team 55 Members:

- James Davis
- Haolong Yan
- Rahul Nowlakha
- Joe Kurokawa
- Traver Clifford
- Michael Rojas

CDC Mentors:

- Jill Raudabaugh
- Breanna Newton

GT Mentor:

- Elizabeth Shivers

Agenda

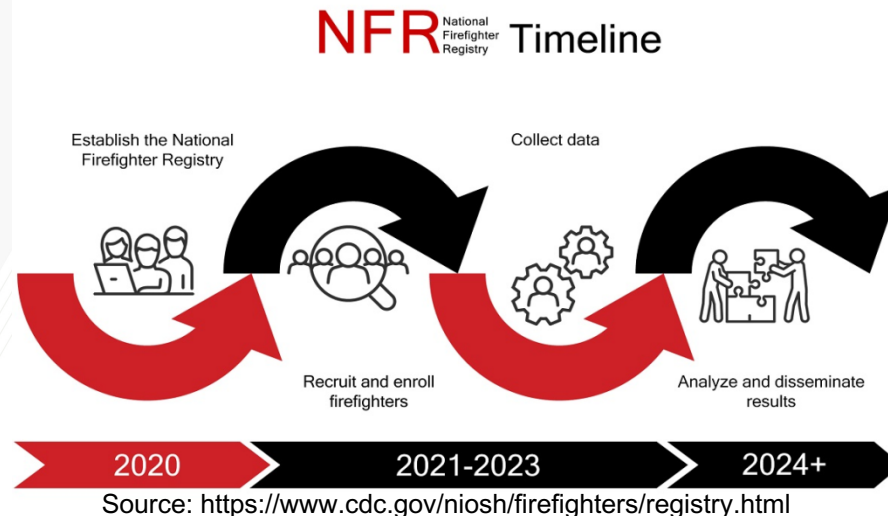
- Motivation Behind the National Firefighter Registry
- Scope of National Firefighter Registry
- Our Role
- Solution Architecture
- Project Plan

Why create the National Firefighter Registry?

- Firefighters at higher risk for various cancers, respiratory conditions, etc.
- Limited information on long-term health of firefighters
- Need for long-term medical information and inclusion of women and minorities
- Creation spurred by passing of Firefighter Cancer Registry Act of 2018

National Firefighter Registry

- CDC project to track health information of firefighters to analyze cancer trends
- Enrollment is on a volunteer basis
- Goal is >200,000 firefighters enrolled



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Our Role

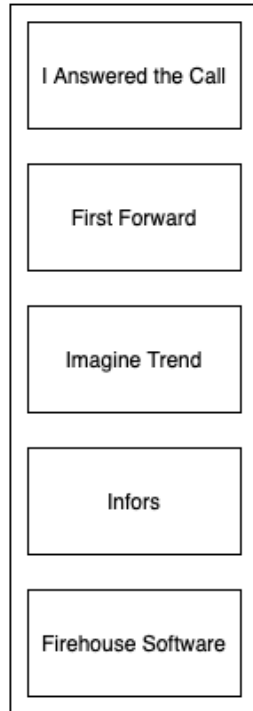
- Existing NFIRS casualty form not FHIR compatible
- Goal: Accept JSON/XML FHIR resources, validate, and insert into SQL database
- Add visualization capabilities

A FDID ☆ State ☆ Incident Date MM DD YYYY ☆ Station Incident Number ☆ Exposure ☆			<input type="checkbox"/> Delete <input type="checkbox"/> Change	NFIRS-5 Fire Service Casualty
B Injured Person Identification Number _____ First Name MI Last Name Suffix		1 <input type="checkbox"/> Male ☆ 1 <input type="checkbox"/> Career 2 <input type="checkbox"/> Female 2 <input type="checkbox"/> Volunteer	C Casualty Number ☆ Casualty Number _____	
D Age or Date of Birth ☆ Age _____ OR Date of Birth MM DD YYYY In years Month Day Year		E Date and Time of Injury ☆ Midnight is 0000. Date of Injury MM DD YYYY Time of Injury HH MM Month Day Year Hour Minute		F Responses Number of prior responses during past 24 hours _____
G1 Usual Assignment 1 <input type="checkbox"/> Suppression 2 <input type="checkbox"/> EMS 3 <input type="checkbox"/> Prevention 4 <input type="checkbox"/> Training 5 <input type="checkbox"/> Maintenance 6 <input type="checkbox"/> Communications 7 <input type="checkbox"/> Administration 8 <input type="checkbox"/> Fire investigation 0 <input type="checkbox"/> Other	G2 Physical Condition Just Prior to Injury 1 <input type="checkbox"/> Rested 0 <input type="checkbox"/> Other 2 <input type="checkbox"/> Fatigued U <input type="checkbox"/> Undetermined 4 <input type="checkbox"/> Ill or injured		G4 Taken To <input type="checkbox"/> Not transported 1 <input type="checkbox"/> Hospital 4 <input type="checkbox"/> Doctor's office 5 <input type="checkbox"/> Morgue/Funeral home 6 <input type="checkbox"/> Residence 7 <input type="checkbox"/> Station or quarters 0 <input type="checkbox"/> Other	
G3 Severity ☆ 1 <input type="checkbox"/> Report only, including exposure 2 <input type="checkbox"/> First aid only 3 <input type="checkbox"/> Treated by physician (no lost time) 4 <input type="checkbox"/> Moderate (lost time) 5 <input type="checkbox"/> Severe (lost time) 6 <input type="checkbox"/> Life threatening (lost time) 7 <input type="checkbox"/> Death		G5 Activity at Time of Injury Activity at time of injury _____		
H1 Primary Apparent Symptom Primary apparent symptom _____	I1 Cause of Firefighter Injury Cause of injury _____		I3 Object Involved in Injury <input type="checkbox"/> None Object involved in injury _____	
H2 Primary Part of Body Injured <input type="checkbox"/> None Primary injured body part _____	I2 Factor Contributing to Injury <input type="checkbox"/> None Contributing factor _____			

Source: NFIRS Reference Guide (2015) pp. 182

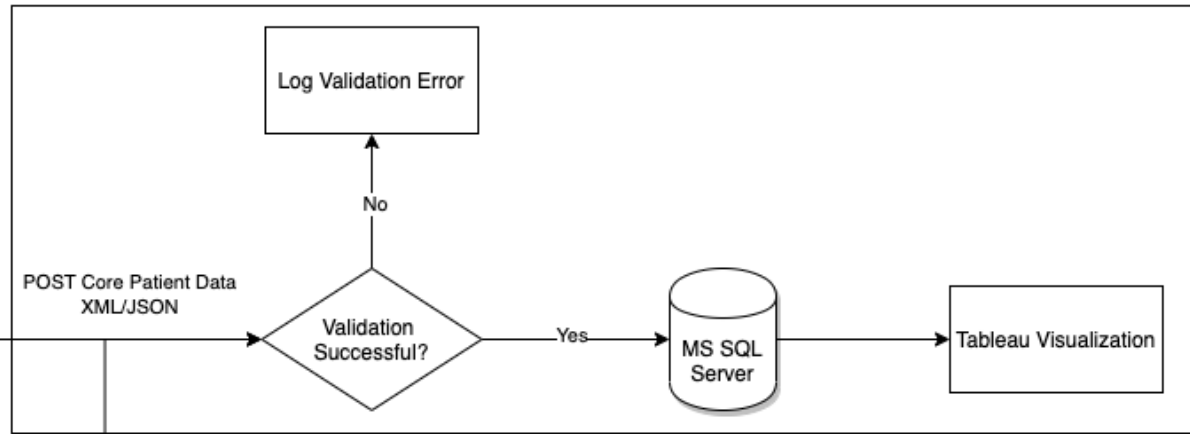
Solution Architecture

Commercial Applications for Fire
Fighter information



Fire Fighter Web
Portal

In Scope for Team-55



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Project Plan

